1. PE-Xa service pipe 2. Temperature-resistant adhesive layer
3. High temperature fibre mesh
4. Temperature-resistant adhesive layer including oxygen diffusion barrier 5. Service pipe outer layer 6. Flexible Polyurethane-Foam (PUR) 7. Casing

Pre-insulated, flexible pipe system with fiber-reinforced medium pipe for use up to 115°C and 10 bar.

Thanks to the high temperature aramid fiber mesh, the FibreFlex Pro pipe system can be used up to a maximum operating temperature of 115 ° C and a pressure of up to 10 bar.

The FibreFlex Pro pipe system thus combines the advantages of a flexible pipe system with the operating properties of KMR steel pipe systems and is therefore an innovative, cost-effective alternative.

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Technical data:

Max. continuous
operating temperature:

Thermal conductivity:

Operating pressure:

Service pipe:

Thermal insulation:

Casing:

+95°C (seasonal)

0.021 W/mK

10 bar

PE-Xa with aramid
reinforcement

PUR, CFC-free
cyclopenthane-based

corrugated PE-LLD

Max. operating
temperature:

+115°C (variable*)

FibreFlex Pro pipe systems are designed for a service life of at least 30 years with the following temperature profile:

*29 years at 90°C + 1 year at 100°C + 100h at 115°C
or

Winter heating season 95°C + Summer heating season 85°C

Further temp./time profiles can be used in accordance with ISO 13760 (Miners rule).
The maximum operating temperature must not exceed 115°C.

Type Dimension Casing

Max. Coil
length

Weight/
Meter

Bending-
radius
UNO/IS1 [mm] [mm] [m] kg r in m
32/76 32.0x2.9 76 570 1.10 0.70
40/91 40.0x3.7 91 570 1.90 0.90
50/111 47.6x3.6 111 410 2.00 0.90 63/126 58.5x4.0 126 300 2.40 1.00
75/142 69.5x4.6 142 220 (*440) 2.90 1.10
90/162 84.0x6.0 162 150 (*300) 4.00 1.20
110/162 101.0x6.5 162 150 (*300) 4.30 1.20
125/182 116.0x6.8 182 86 (*170) 5.10 1.30
140/202 127.0x7.1 202 80 (*160) 6.30 1.60
160/225 144.0x7.5 225 75 (*150) 7.70 1.60
UNO/IS2 [mm] [mm] [m] kg r in m
32/91 32,0x2,9 91 570 1.30 0.90
40/111 40,0x3,7 111 410 1.90 0.90 50/126 47,6x3,6 126 300 2.20 1.00
63/142 58,5x4,0 142 220 (*440) 2.70 1.10
75/162 69,5x4,6 162 150 (*300) 3.50 1.20
90/182 84,0x6,0 182 86 (*170) 4.70 1.30
110/182 101,0x6,5 182 86 (*170) 5.00 1.30
125/202 116,0x6,8 202 80 (*160) 6.00 1.40
140/225 127,0x7,1 225 75 (*150) 7.50 1.60
DUO/IS1 [mm] [mm] [m] kg r in m
32+32/111 2x32,0x2,9 111 410 1.90 0.90
40+40/126 2x40,0x3,7 126 300 2.60 0.90
50+50/162 2x47,6x3,6 162 150 (*300) 3.60 1.20
63+63/182 2x58,5x4,0 182 86 (*170) 4.50 1.30
75+75/202 2x69,5x4,6 202 80 (*160) 5.70 1.40
90+90/225 2x84,0x6,0 225 75 (*150) 7.30 1.60
DUO/IS2 [mm] [mm] [m] kg r in m
32+32/126 2x32,0x2,9 126 300 2.30 0.90
40+40/142 2x40,0x3,7 142 220 (*440) 2.90 1.00
50+50/182 2x47,6x3,6 182 86 (*170) 4.30 1.30
63+63/202 2x58,5x4,0 202 80 (*160) 5.30 1.40
75+75/225 2x69,5x4,6 225 75 (*150) 6.60 1.60
The specified maximum Coil lengths refer to the standard maxi-coil dimensions of (height x width) 2950x1200 mm. Project Coil lengths are available up to (*) = (height x width) 2950x2400mm.